

SALIENT CHARACTERISTICS REQUIREMENTS

Nd-YAG Q-switched pulsed laser,

Output of 2 joules or greater at fundamental 1064 nm wavelength and less than 12 ns pulse,

Output of 1 joule or greater at frequency doubled 532 nm wavelength and less than 10 ns pulse,

10 Hz repetition rate or greater,

include frequency doubling crystal for 532 nm output,

include capability to add single longitudinal mode injection seeding option,

remote control terminal operation,

pulse width 8-12 ns or shorter,

laser head should completely disconnect from power supply,

**near field beam profile at 1 m greater than 70% correlation to a Gaussian profile,
far field beam profile greater than 95% correlation to a Gaussian profile,**

pointing stability better than +/- 50 micro-rads,

beam divergence less than 0.5 millirad,

fundamental linewidth 1 cm-1 or better.